

FENCE

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 382



FENCE

A fence is a constructed barrier to livestock, wildlife, or people.

PRACTICE INFORMATION

This practice may be applied to any area where livestock and /or wildlife control is needed, or where access to people is to be regulated.

A wide variety of types of fencing has developed. However, fencing material and construction quality is always designed and installed to assure the fence will meet the intended purpose and longevity requirements of the project.

The standard fence is constructed of either barbed or smooth wire suspended by posts with support structures. Other types include woven wire for small animals, electric fence as a cost efficient alternative, and suspension fences which are designed with heavy but widely

spaced posts and support structures. Designs for most types of fences are available at the local NRCS field office.

Things to consider when planning a fence include the following:

1. For ease of maintenance purposes avoid as much irregular terrain as possible.
2. Wildlife movement needs should be considered.
3. State and local laws may apply to boundary fences.
4. Consider livestock handling, watering and feeding requirements when locating fences
5. Consider soil erosion potential and feasibility of fence construction when planning fences on steep or irregular terrain.

Additional information including designs and construction specifications are available in the local NRCS Field Office Technical Guide.

The following pages contain the conservation effects expected to occur when this practice is applied. These effects are subjective and somewhat dependent on variables such as climate, terrain, soil, etc. Users are cautioned that these effects are estimates that may or may not apply to a specific site.

CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: recorded in Microsoft word 6.0 - use tabs to change cells/fields

| | | | | | |
|---|------|--------------|--|------|---------|
| STATE | Iowa | FIELD OFFICE | | DATE | 12/5/96 |
| PRACTICE: 382 Fence | | | NOTES: Effects are based on improved grazing management and forage production responses | | |
| RESOURCE: SOIL RESOURCE CONCERN: EROSION | | | Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default. | | |
| RESOURCE INDICATORS | | | PHYSICAL EFFECTS | | |
| SHEET AND RILL | | | moderate reduction in sheet and rill erosion | | |
| WIND | | | moderate reduction in wind erosion | | |
| EPHEMERAL GULLY | | | moderate reduction in ephemeral gully erosion | | |
| CLASSIC GULLY | | | moderate reduction in classic gully erosion | | |
| STREAMBANK | | | moderate reduction in streambank erosion | | |
| IRRIGATION INDUCED | | | N/A | | |
| SOIL MASS MOVEMENT | | | insignificant | | |
| ROADBANK/CONSTRUCTION | | | N/A | | |
| OTHER | | | | | |
| RESOURCE CONCERN: SOIL CONDITION | | | | | |
| SOIL TILTH | | | moderate improvement in tilth | | |
| SOIL COMPACTION | | | insignificant | | |
| SOIL CONTAMINATION | | | | | |
| • SALTS | | | insignificant | | |
| • ORGANICS | | | insignificant | | |
| • FERTILIZERS | | | insignificant | | |
| • PESTICIDES | | | insignificant | | |
| • OTHER | | | | | |
| DEPOSITION/DAMAGE | | | | | |
| • ONSITE | | | insignificant | | |
| • OFFSITE | | | insignificant | | |
| DEPOSITION/SAFETY | | | | | |
| • ONSITE | | | insignificant | | |
| • OFFSITE | | | insignificant | | |
| OTHER | | | | | |
| RESOURCE: WATER RESOURCE CONCERN: WATER QUANTITY | | | | | |
| SEEPS | | | N/A | | |
| RUNOFF/FLOODING | | | moder. decrease in runoff/flooding | | |
| EXCESS SUBSURFACE WATER | | | moderate reduction in excess subsurface water | | |
| INADEQUATE OUTLETS | | | N/A | | |
| WATER MGT. IRRIGATION | | | | | |
| • SURFACE | | | N/A | | |
| • SPRINKLER | | | N/A | | |
| WATER MGT. NON-IRRIGATED | | | moderate improvement in moisture use | | |
| RESTRICTED FLOW CAPACITY (drainage) | | | | | |
| • ONSITE | | | N/A | | |
| • OFFSITE | | | N/A | | |
| RESTRICTED STORAGE | | | moderate reduction in sedimentation of H2O storage | | |
| OTHER | | | | | |

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| RESOURCE: WATER | |
| RESOURCE CONCERN: WATER QUALITY | |
| RESOURCE INDICATORS | PHYSICAL EFFECTS |
| GROUNDWATER CONTAMINANTS | |
| • PESTICIDES | insignificant |
| • NUTRIENTS AND ORGANICS | insignificant |
| • SALINITY | insignificant |
| • HEAVY METALS | insignificant |
| • PATHOGENS | insignificant |
| • OTHER | |
| SURFACE WATER CONTAMINANTS | |
| • PESTICIDES | insignificant |
| • NUTRIENTS AND ORGANICS | insignificant |
| • SUSPENDED SEDIMENTS | moderate reduction in SWater contam./susp. sedi. |
| • LOW DISSOLVED OXYGEN | insignificant |
| • SALINITY | insignificant |
| • HEAVY METALS | insignificant |
| • WATER TEMPERATURE | insignificant |
| • PATHOGENS | insignificant |
| AQUATIC HABITAT SUITABILITY | moderate improvement in Aqua. Hab. Suit. |
| OTHER | |
| RESOURCE: AIR | |
| RESOURCE CONCERN: AIR QUALITY | |
| AIRBORNE SEDIMENT AND SMOKE PARTICLES | |
| • ONSITE SAFETY | insignificant |
| • OFFSITE SAFETY | insignificant |
| • ONSITE STRUCT. PROBLEMS | insignificant |
| • OFFSITE STRUCT. PROBLEMS | insignificant |
| • ONSITE HEALTH | insignificant |
| • OFFSITE HEALTH | insignificant |
| AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS | insignificant |
| AIRBORNE CHEMICAL DRIFT | insignificant |
| AIRBORNE ODORS | insignificant |
| FUNGI, MOLDS, AND POLLEN | insignificant |
| OTHER | |
| RESOURCE CONCERN: AIR CONDITION | |
| AIR TEMPERATURE | insignificant |
| AIR MOVEMENT (windbreak effect) | insignificant |
| HUMIDITY | insignificant |
| OTHER | |

[illegible]

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| RESOURCE: HUMAN | |
| RESOURCE CONCERN: SOCIAL CONSIDERATIONS | |
| RESOURCE INDICATORS | PHYSICAL EFFECTS |
| PUBLIC HEALTH AND SAFETY | N/A |
| PRIVATE/PUBLIC VALUES | N/A |
| CLIENT CHARACTERISTICS | N/A |
| RISK TOLERANCE | N/A |
| TENURE | N/A |
| OTHER | |
| RESOURCE CONCERN: CULTURAL CONSIDERATIONS | |
| ABSENCE/PRESENCE OF CULTURAL RESOURCES | situational regarding cultural resources |
| SIGNIFICANCE OF CULTURAL RESOURCES | situational regarding cultural resources |
| MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS | situational regarding cultural resources |
| OTHER | |
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